

Title (en)

HAND GUIDED AND/OR HAND HELD ELECTRIC OR PNEUMATIC POWER TOOL

Title (de)

HANDGEFÜHRTES ELEKTRISCHES ODER PNEUMATISCH ANGETRIEBENES WERKZEUG

Title (fr)

OUTIL À MOTEUR ÉLECTRIQUE OU PNEUMATIQUE GUIDÉ ET/OU TENU À LA MAIN

Publication

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Application

EP 17209800 A 20171221

Priority

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Abstract (en)

The invention refers to a hand guided and/or hand held electric or pneumatic power tool(1, 1'), comprising an electric or pneumatic motor (15, 100), a working element (9) realizing a working movement (11), when the motor (15, 100) is activated, and at least one gear arrangement functionally located between the motor (15, 100) and the working element (9) for transmitting a rotational movement and torque from the motor (15, 100) to the working element (9) in order to realize the working movement (11). It is suggested that the at least one gear arrangement is embodied as a magnetic gear arrangement (20, 21, 41) using magnetic fields to transmit the rotational movement and torque from the motor (15, 100) to the working element (9) without mechanical contact, in order to realize the working movement (11).

IPC 8 full level

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Citation (applicant)

US 3378710 A 19680416 - MARTIN JR THOMAS B

Citation (search report)

- [X] WO 9823025 A1 19980528 - SCHUESSLER GERD [DE], et al
- [I] EP 1843454 A1 20071010 - INDEX WERKE KG HAHN & TESSKY [DE]
- [X] WO 2012090711 A1 20120705 - MAKITA CORP [JP], et al
- [Y] EP 2745994 A2 20140625 - BOSCH GMBH ROBERT [DE]
- [Y] US 2014015362 A1 20140116 - CHENG HSI-CHIEH [TW]
- [Y] WO 2016036116 A1 20160310 - UNIV CHOSUN IACF [KR]
- [A] US 2013002075 A1 20130103 - EDWARDS HUW LLEWELYN [GB], et al

Cited by

US2021039225A1; US11839946B2; EP3967457A1

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BA ME

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DOCDB simple family (application)

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